AMENDMENTS TO THE CLAIMS

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1. (Previously presented) A method for treating a subject having a B-cell malignancy, wherein cells of the B-cell malignancy have low or no baseline expression of CD20, the method comprising:

administering to the subject an immunostimulatory CpG oligonucleotide between 6 and 100 nucleotides long comprising a backbone modification and at least the formula $5' X_1 X_2 CGX_3 X_4 3'$, wherein C is unmethylated and wherein X_1 , X_2 , X_3 , and X_4 are nucleotides, in an effective amount to upregulate expression of CD20 by the cells; and

administering to the subject an antibody specific for CD20, in an effective amount to treat the subject.

2-7. (Canceled)

- 8. (Previously presented) The method of claim 1, wherein the B-cell malignancy is B-cell chronic lymphocytic leukemia (B-CLL).
- 9. (Previously presented) The method of claim 1, wherein the B-cell malignancy is a marginal zone lymphoma.
- 10. (Canceled)
- 11. (Previously presented) The method of claim 1, wherein the antibody specific for CD20 is Rituximab.

12-13. (Canceled)

14. (Previously presented) The method of claim 1, wherein the modified backbone is a phosphate backbone modification.

15. (Previously presented) The method of claim 1, wherein the modified backbone is an amino acid backbone.

- 16. (Canceled)
- 17. (Previously presented) The method of claim 1, wherein the immunostimulatory CpG oligonucleotide is 8 to 40 nucleotides in length.
- 18. (Previously presented) The method of claim 1, wherein the immunostimulatory CpG oligonucleotide is isolated.
- 19. (Previously presented) The method of claim 1, wherein the immunostimulatory CpG oligonucleotide is a synthetic nucleic acid.
- 20. (Previously presented) The method of claim 1, wherein the immunostimulatory CpG oligonucleotide and the antibody are administered together.
- 21. (Previously presented) The method of claim 1, wherein the immunostimulatory CpG oligonucleotide and the antibody are administered separately.
- 22-23. (Canceled)
- 24. (Previously presented) A method for treating a subject having a marginal zone lymphoma or B-cell chronic lymphocytic leukemia, wherein cells of the lymphoma or leukemia have low or no baseline expression of an antigen selected from CD19 and CD22, the method comprising:

administering to the subject an immunostimulatory CpG oligonucleotide between 6 and 100 nucleotides long comprising a backbone modification and at least the formula $5' X_1 X_2 CG X_3 X_4 3'$, wherein C is unmethylated and wherein X_1 , X_2 , X_3 , and X_4 are nucleotides, in an effective amount to upregulate expression of the antigen by the cells of the lymphoma or leukemia; and

administering to the subject an antibody specific for the upregulated antigen, in an effective amount to treat the subject.

25-33. (Canceled)

34. (Previously presented) A method for treating a subject having a B-cell malignancy, wherein cells of the malignancy upregulate expression of a surface antigen selected from CD19, CD20, and CD22, in response to immunostimulatory CpG oligonucleotide, the method comprising:

isolating malignant B cells from the subject;

identifying a surface antigen selected from CD19, CD20, and CD22, the expression of which can be upregulated in response to immunostimulatory CpG oligonucleotide, wherein the surface antigen is expressed by the malignant B cells in an amount lower than that of normal B cells;

administering to the subject an immunostimulatory CpG oligonucleotide between 6 and 100 nucleotides long comprising a backbone modification and at least the formula $5' X_1 X_2 CG X_3 X_4 3'$, wherein C is unmethylated and wherein X_1 , X_2 , X_3 , and X_4 are nucleotides, in an effective amount to upregulate expression of the surface antigen by the cells; and

administering to the subject an antibody specific for the upregulated surface antigen, in an amount effective to treat the subject.

35-42. (Canceled)

43. (Previously presented) A method for treating a subject having a B-cell malignancy resistant to therapy with an antibody specific for a surface antigen selected from CD19, CD20, and CD22, wherein cells of the malignancy have low or no baseline expression of the surface antigen, the method comprising:

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administering to the subject an immunostimulatory CpG oligonucleotide between 6 and 100 nucleotides long comprising a backbone modification and at least the formula $5' X_1 X_2 CGX_3 X_4 3'$, wherein C is unmethylated and wherein X_1 , X_2 , X_3 , and X_4 are nucleotides, in an effective amount to upregulate expression of the surface antigen by the cells; and

administering to the subject an antibody specific for the upregulated surface antigen, in an effective amount to treat the subject.

44-55. (Canceled)

56. (Currently amended) A method for treating eancer a B-cell malignancy in a human, wherein cells of the cancer have low or no baseline expression of a surface antigen selected from CD19, CD20, and CD22, the method comprising:

administering to the human an immunostimulatory CpG oligonucleotide between 6 and 100 nucleotides long comprising a backbone modification, said nucleic acid comprising at least the formula $5' X_1 X_2 CGX_3 X_4 3'$, wherein C is unmethylated and wherein X_1 , X_2 , X_3 , and X_4 are nucleotides, in an effective amount to upregulate expression of the surface antigen by the cancer B—cell malignancy cells; and

administering to the human a human or humanized antibody of IgG1 isotype, which antibody binds to the surface antigen, in an effective amount for treating the cancer B-cell malignancy.

57-77. (Canceled)

78. (Previously presented) The method of claim 34, wherein the surface antigen is CD19.

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- 79. (Previously presented) The method of claim 34, wherein surface antigen is CD20.
- 80. (Previously presented) The method of claim 34, wherein surface antigen is CD22.
- 81. (Previously presented) The method of claim 34, wherein the B-cell malignancy is B-CLL.
- 82. (Previously presented) The method of claim 34, wherein the B-cell malignancy is marginal zone lymphoma.
- 83. (Previously presented) The method of claim 43, wherein the surface antigen is CD19.
- 84. (Previously presented) The method of claim 43, wherein the surface antigen is CD20.
- 85. (Previously presented) The method of claim 84, wherein the antibody is Rituximab.
- 86. (Previously presented) The method of claim 43, wherein the surface antigen is CD22.
- 87. (Previously presented) The method of claim 43, wherein the B-cell malignancy is a marginal zone lymphoma.
- 88. (Previously presented) The method of claim 43, wherein the B-cell malignancy is B-cell chronic lymphocytic leukemia.
- 89. (Previously presented) The method of claim 43, wherein the modified backbone is a phosphate backbone modification.

90. (Previously presented) The method of claim 43, wherein the immunostimulatory CpG oligonucleotide is 8 to 40 nucleotides in length.

- 91. (Previously presented) The method of claim 43, wherein the immunostimulatory CpG oligonucleotide is a synthetic nucleic acid.
- 92. (Previously presented) The method of claim 43, wherein the immunostimulatory CpG oligonucleotide is ODN 2006 (SEQ ID NO:729).
- 93. (Previously presented) The method of claim 1, wherein the immunostimulatory CpG oligonucleotide is ODN 2006 (SEQ ID NO:729).
- 94. (Previously presented) The method of claim 24, wherein the antigen is CD19.
- 95. (Previously presented) The method of claim 24, wherein the antigen is CD22.
- 96. (Previously presented) The method of claim 24, wherein the modified backbone is a phosphate backbone modification.
- 97. (Previously presented) The method of claim 24, wherein the immunostimulatory CpG oligonucleotide is 8 to 40 nucleotides in length.
- 98. (Previously presented) The method of claim 24, wherein the immunostimulatory CpG oligonucleotide is a synthetic nucleic acid.
- 99. (Previously presented) The method of claim 24, wherein the immunostimulatory CpG oligonucleotide is ODN 2006 (SEQ ID NO:729).

100. (Previously presented) The method of claim 34, wherein the surface antigen is not expressed on the malignant B cells in absence of the administering to the subject the immunostimulatory CpG oligonucleotide.

- 101. (Previously presented) The method of claim 34, wherein the modified backbone is a phosphate backbone modification.
- 102. (Previously presented) The method of claim 34, wherein the immunostimulatory CpG oligonucleotide is 8 to 40 nucleotides in length.
- 103. (Previously presented) The method of claim 34, wherein the immunostimulatory CpG oligonucleotide is a synthetic nucleic acid.
- 104. (Previously presented) The method of claim 34, wherein the immunostimulatory CpG oligonucleotide is ODN 2006 (SEQ ID NO:729).